Title (en)

Method and apparatus for maximum a posteriori probability decoding

Title (de)

Verfahren und Vorrichtung zur Maximum-a-Posteriori Warscheinlichkeits-Dekodierung

Title (fr)

Procédé et dispositif pour le décodage à maximum de probabilité a posteriori

Publication

EP 1156588 B1 20070509 (EN)

Application

EP 99906532 A 19990301

Priority

JP 9900963 W 19990301

Abstract (en)

[origin: WO0052833A1] A method for decoding maximum posterior probability, comprising (1) calculating the N-th backward probability to the first backward probability in the reverse direction, discretely storing the ms-th backward probability, the m(s-1)-th backward probability, ..., and the m2-th backward probability, continuously storing the m1-th to first backward probabilities, calculating the first forward probability, finding the first decoding result by using the first forward probability and stored first backward probability, and similarly finding the second to m1-th decoding results, (2) then, calculating and storing the stored m2-th backward probability to the (m1+1)-th backward probability, calculating the (m1+1)-th forward probability, finding the (m1+1)-th decoding result by using the (m1+1)-th forward probability and the stored (m1+1)-th backward probability, and similarly finding the (m1+2)-th to m2-th decoding results, and (3) similarly finding the (m2+1)-th to N-th decoding results.

IPC 8 full level

H03M 13/00 (2006.01); **H03M 13/29** (2006.01); **H03M 13/45** (2006.01); **H04L 1/00** (2006.01)

CPC (source: EP US)

H03M 13/3723 (2013.01 - EP US); **H03M 13/3905** (2013.01 - EP US); **H03M 13/3933** (2013.01 - EP US); **H03M 13/3972** (2013.01 - EP US)

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EP1367732A3; EP1724934A1; US7107512B2; US7631248B2; WO2006038829A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 0052833 A1 20000908; CN 1201494 C 20050511; CN 1336038 A 20020213; DE 69936067 D1 20070621; DE 69936067 T2 20080110; EP 1156588 A1 20011121; EP 1156588 A4 20050504; EP 1156588 B1 20070509; JP 3451246 B2 20030929; US 2002015457 A1 20020207; US 6563890 B2 20030513

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JP 9900963 W 19990301; CN 99816355 A 19990301; DE 69936067 T 19990301; EP 99906532 A 19990301; JP 2000603157 A 19990301; US 92360201 A 20010807